Translation

INTERNATIONAL PRELIMINARY EXAMINATION REPORT 532, 179

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PF020144	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)
International application No. PCT/EP2003/050708	International filing date (day/month/year) Priority date (day/month/year) 13 octobre 2003 (13.10.2003) 28 octobre 2002 (28.10.2002)
International Patent Classification (IPC) or n G02F 1 /1335	
Applicant	THOMSON LICENSING S.A.
and is transmitted to the applicant at 2. This REPORT consists of a total of This report is also accompan amended and are the basis for	ination report has been prepared by this International Preliminary Examining Authority coording to Article 36.
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IV Lack of unity of inv V Reasoned statemen citations and explain VI Certain documents VII Certain defects in the	of opinion with regard to novelty, inventive step and industrial applicability rention tunder Article 35(2) with regard to novelty, inventive step or industrial applicability; actions supporting such statement
Date of submission of the demand 01 juillet 2004 (01.07	Date of completion of this report 27 January 2005 (27.01.2005)
Name and mailing address of the IPEA/EP	Authorized officer
Facsimile No	Telephone No.



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PCT	C/EP2003/050708

I. B	Basis o	of the rep	port	
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2.	the in	nternation se elemen the lan	guage of a translation furnished for the purposes of international search (under R	which is:
1			nguage of publication of the international application (under Rule 48.3(b)).	
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3.	With	iminary e	to any nucleotide and/or amino acid sequence disclosed in the internet examination was carried out on the basis of the sequence listing:	ational application, the international
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4.	. 🔲	The ar	mendments have resulted in the cancellation of:	
1			the description, pages	
			the claims, Nos.	
			the drawings, sheets/fig	
5.	. 🔲	This re	eport has been established as if (some of) the amendments had not been made, d the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**	since they have been considered to go
	in th and	his repoi 70.17).	t sheets which have been furnished to the receiving Office in response to an invi rt as "originally filed" and are not annexed to this report since they do t	not contain amendments (Rule 70.16
*		•	ment sheet containing such amendments must be referred to under item 1 and an	nexed to this report.

Internation	application No.
PCT/LI	03/50708

	Statement			
	Novelty (N)	Claims	1-11	YES
		Claims		NO
Inventive step (IS)		Claims	1-11	YES
		Claims		NO
	Industrial applicability (IA)	Claims 1-11	1-11	YES
		Claims		NO
_	Citations and explanations			
	1.1 Reference	is made to the	following document	::
	D1: US-A1-	2002024618		
	•		he prior art close dent claim 1, desc	

a display system (cf. "third embodiment", figure 7 coupled to the "color switching illumination unit" shown in figure 12 and associated with the "focusing means" described in paragraph 64) comprising:

(the references in brackets are to that document):

- * a light source coupled to a matrix filter formed by a mosaic of coloured filters (cf. paragraph 75, also mentioned in paragraphs 60 and 61);
- * a spatial light modulator (SLM) (1) formed by pixels (4);
- * means of producing an image of the coloured filter on the modulator (cf. paragraph 64, where the solution can actually be applied);
- * moving means and corresponding control device (implicit) for moving the filter image over the SLM input face (cf. paragraph 73 and figure 12).

Therefore the subject matter of claim 1 differs from D1 in that claim 1 specifies that an image of each elementary filter is produced on the SLM so as to cover a plurality of pixels whilst, in D1, each pixel is associated with one (cf. figure 12) or several (cf. figures 8 to 10) coloured unit(s).

Therefore the subject matter of claim 1 is novel (PCT Article 33(2)).

2.2 The present application and D1 concern the problem of colour break up when coloured images are projected in sequential colour mode. However, the present application provides a solution that consists in illuminating several pixels with a single coloured filter, enabling the problem to be overcome in a simplified manner. In particular, the display system to which claim 1 relates eliminates the optical constraints of D1 in which a 1-1 match has to be established between the coloured units and pixels.

In view of the specific nature of the problem solved, it would appear difficult, in the absence of further motivation, to combine this new feature with the D1 system. Consequently the solution proposed in claim 1 of the present application is considered to involve an inventive step (PCT Article 33(3)).

3. Claims 2 to 11 are dependent on claim 1 and hence likewise satisfy the PCT novelty and inventive step requirements.

- 4. The description is inconsistent with the claims (PCT Article 5.1(a)(iii)). In particular, the possibility of a 1-1 match between the coloured filters and pixels should be eliminated (cf. page 3, line 17; page 4, line 18; page 11, line 18). Furthermore, although the interpretation of figures 6 to 8 does not necessarily imply a 1-1 match of filters and pixels, from page 18 onwards, it would be advantageous to specify (at least once) that a "point" corresponds to a plurality of pixels. Finally, on page 25, lines 8 and 9, the word "pixels" should be replaced by "point".
- 5. The application as originally filed does not appear to meet the formatting requirements under PCT Rule 11. As a result, some figures (in particular figures 6a to 6l) have been cut off during copying, such that the corresponding embodiment is incomprehensible because the cut-off parts (first and last data columns) are missing. However, in light of the description and succession of the figures, it appears that entire figures 6a to 6l would be acceptable and would not contravene PCT Article 34(2)(b).